

CLAIMS

1. A monitoring device for monitoring conditions in a pneumatic tire; the device comprising:

5 a monitoring package, a power source, a first coupling element, and a second coupling element;

the first coupling element connected to the power source;

the second coupling element connected to the monitoring package; and

the first and second coupling elements being aligned and spaced apart

whereby power is supplied to the monitoring package from the power source.

2. The device of claim 1, further comprising an attachment patch; the monitoring package being connected to the attachment patch.

3. The device of claim 2, wherein the monitoring package is connected to the outer surface of the attachment patch.

4. The device of claim 3, further comprising a patch connected to the power source; the patch connecting the power source to the attachment patch.

20 5. The device of claim 2, wherein the monitoring package is embedded within the body of the attachment patch.

6. The device of claim 5, further comprising a patch connected to the power source; the patch connecting the power source to the attachment patch.

7. The device of claim 1, wherein the first and second coupling elements are coils.

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8. The device of claim 1, wherein the first and second coupling elements are pads.

9. A monitoring device for monitoring conditions in a pneumatic tire; the device comprising:

a monitoring package and a power source; and

the power source being electrically coupled to the monitoring package to provide power to the monitoring package.

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10. The device of claim 9, wherein the power source is a battery.

11. The device of claim 9, further comprising:

a first coupling element electrically connected to the monitoring package;

a second coupling element electrically connected to the power source;

and

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the first and second coupling elements being aligned and spaced apart whereby power is supplied to the monitoring package from the power source through electrical coupling.

5 12. The device of claim 11, wherein the first and second coupling elements are coils.

13. The device of claim 11, wherein the first and second coupling elements are pads.

14. The device of claim 9, further comprising an attachment patch; the monitoring package being connected to the attachment patch.

15. The device of claim 14, wherein the monitoring package is connected to the outer surface of the attachment patch.

16. The device of claim 15, further comprising a patch connected to the power source; the patch connecting the power source to the attachment patch.

20 17. The device of claim 14, wherein the monitoring package is embedded within the body of the attachment patch.

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18. The device of claim 17, further comprising a patch connected to the power source; the patch connecting the power source to the attachment patch.

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